

What is claimed is:

1. A method for automating mix design, comprising:

running one or more tests on the mix design using computer controlled equipment;

5 digitally collecting data for each run using the computer controlled equipment;

and

selecting an optimum mix based on the collected data.

2. The method of claim 1, further comprising turning on a communication port.

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3. The method of claim 1, further comprising selecting an operating mode.

4. The method of claim 1, wherein the equipment is a gyratory compactor, further comprising capturing a specimen height for each gyration from the gyratory compactor.

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5. The method of claim 4, further comprising turning off the gyratory compactor upon reaching a predetermined gyration value.

6. The method of claim 1, further comprising turning off the communication port.

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7. The method of claim 1, further comprising loading a second specimen.

8. The method of claim 1, further comprising uploading data to a computer.

9. A method for asphalt mix design, comprising:

running one or more tests on the mix design using computer controlled equipment;

5 digitally collecting data from the computer controlled equipment; and
selecting an optimum mix based on the collected data.

10. The method of claim 9, wherein the equipment is a gyratory compactor, further comprising:

10 turning on a communication port;
selecting an operating mode;
capturing a specimen height for each gyration from the gyratory compactor; and
turning off the gyratory compactor upon reaching a predetermined gyration value.

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11. A system, comprising:

a gyratory compactor; and

a computer coupled to the gyratory compactor, the computer having computer readable code to run one or more tests on the mix design using the gyratory compactor;

20 digitally collect data for each gyration from the gyratory compactor; and select an optimum mix based on the gyration data.

12. The system of claim 11, further comprising code to turn on a communication port.

13. The system of claim 11, further comprising code to select a real-time mode or an import mode.

5 14. The system of claim 11, further comprising capturing a specimen height for each gyration from the gyratory compactor.

15. The method of claim 11, further comprising code to turn off the gyratory compactor upon reaching a predetermined gyration value.

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16. The system of claim 11, further comprising code to turn off the communication port.

17. The system of claim 11, wherein the gyratory compactor sequentially receives one or more specimen.

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18. The system of claim 11, further comprising code to upload gyratory data to a computer.

19. The system of claim 11, wherein the code to receive one or more material properties
20 further comprises code to turn on the gyratory compactor.

20. The system of claim 11, wherein the mix comprises a Superpave mix.